

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A positioning and aiming assembly ~~for use to be held in unfixed abutting contact~~ with an x-ray source, comprising:

at least one aiming arm [[6]] (6) connectable to a holder [[8]] (8) for image data receiving means [[9]] (9); and

at least one handle ~~5, 5' (5, 5')~~, said handle ~~5, 5' (5, 5')~~ including means for connecting it to said at least one aiming arm [[6]] (6).

2. (Currently Amended) An aiming assembly according to claim 1, wherein said assembly is a part of a system including an intra oral x-ray device which is to be positioned with respect to an intra oral image data receiving means [[9]] (9), which x-ray device [[1]] (1) includes an x-ray source being placed in a housing [[4]] (4), said housing ~~4~~ ~~preferably including or having means whereto an elongated x-ray collimator 41 and/or some other accessories may be attached~~, the said at least one aiming arm [[6]] (6) being connectable to the said handle [[5]] (5) at, or at the proximity of its ~~first end~~ ~~a first end of said at least one aiming arm (6)~~, and to a holder [[8]] (8) for the said image data receiving means [[9]] (9), either directly or via a bite-block [[7]] (7), at its ~~a second end of said at least one aiming arm (6)~~.

3. (Currently Amended) An aiming assembly according to claim 2, wherein the said at least one handle ~~5, 5' (5, 5')~~ is connected to the ~~said~~ aiming arm [[6]] (6) via means ~~54, 55 (54, 55)~~ by

which ~~it said handle (5, 5')~~ ~~may be released or moved~~ is structured and arranged to be moveable along ~~the said~~ aiming arm [[6]] (6).

4. (Currently Amended) An aiming assembly according to claim 3, wherein ~~the said~~ assembly includes means by which ~~the said~~ x-ray source ~~may~~ is structured and arranged to be brought repeatedly into at least one constant distance position and/or into known distance positions from ~~the said~~ image data receiving means (9).

5. (Currently Amended) An aiming assembly according to claim 4, which includes means whereby ~~the said~~ at least one handle ~~5, 5'~~ (5, 5') ~~may be connected~~ is structured and arranged to be connectable to at least one fixed position on ~~the said~~ aiming arm 6 and/or means whereby ~~the said~~ at least one handle ~~5, 5'~~ (5, 5') ~~may be moved~~ is structured and arranged to be moveable along ~~the said~~ aiming arm [[6]] (6), which includes indicia, ~~such as a scale, showing the position of a handle 5 attached to it.~~

6. (Currently Amended) An aiming assembly according to claim 4, wherein there are arranged handle position indicia on ~~the said~~ x-ray ~~tube~~ source housing [[4]] (4) or on an accessory, ~~such as a collimator 41~~, attached thereto.

7. (Currently Amended) An assembly according to claim 4, wherein ~~the said~~ x-ray ~~tube~~ source housing [[4]] (4), or any ~~of the~~ parts fixed to ~~it~~ said housing (4), includes at least one connector or contact element for ~~the~~ said at least one handle ~~5, 5'~~ (5, 5').

8. (Currently Amended) An assembly according to claim 7, wherein ~~the~~ said connector or contact element is an integral part of an aiming ring ~~10~~ (10) connectable to an elongated collimator ~~41~~ (41), ~~in turn~~ said collimator (41) is connectable to ~~the~~ said x-ray tube source housing ~~[[4]]~~ (4).

9. (Currently Amended) An assembly according to claim 8, wherein ~~the~~ said aiming ring ~~10~~ (10) is ~~made~~ connectable to ~~the~~ said collimator ~~41~~ (41) in various orientations for supporting various imaging modes.

10. (Currently Amended) An assembly according to claim 9, wherein ~~the~~ said at least one handle ~~5, 5' (5, 5')~~ includes two connection means ~~54, 55~~ (54, 55) for ~~the~~ said at least one aiming arm ~~6, intended for horizontal and vertical orientations of the image data receiving means, correspondingly.~~

11. (Currently Amended) An assembly according to claim 9, wherein ~~the~~ said at least one handle ~~5, 5' (5, 5')~~ is provided with indicia ~~52, 53~~ (52, 53), of which of the said connection means ~~54, 55~~ is ~~designed for horizontal and which for vertical orientation of the image data receiving means 9.~~

12. (Currently Amended) A positioning and aiming assembly for use with an x-ray source, comprising:

an intra oral x-ray device (1) which is to be positioned with respect to an intra oral image data receiving means (9),

~~which said x-ray device [[1]] (1) includes an x-ray source being placed in a housing [[4]] (4), said housing 4 preferably including or having means whereto an elongated x-ray collimator 41 and/or some other accessories may be attached,~~

at least one aiming arm [[6]] (6) connectable to a holder [[8]] (8) for said image data receiving means [[9]] (9); and

at least one handle 5, 5' (5, 5'), said at least one handle 5, 5' (5, 5') including means for connecting ~~it~~ said handle (5, 5') to said at least one aiming arm [[6]] (6), and
a contact construction of said at least one handle (5, 5') which is able to create at least two contact points, at least one contact line and /or at least one contact surface with a surface of the x-ray source housing [[4]] (4), with that of ~~the a~~ collimator 41 (41) and/or with any other part attached to the said x-ray source.

13. (Currently Amended) An assembly according to claim 12, wherein ~~the~~ the said contact construction of a said at least one handle 5, 5' (5, 5') includes a curved surface 51 (51) with a curvature equal to that of a the surface of the said x-ray source housing (4), or a said collimator (41) or any other part attached thereto contacted by said contact construction.

14. (Currently Amended) An assembly according to claim 13, wherein ~~the~~ the said curved surface 51 (51) is such that when brought into contact with its an intended counter surface, they

said curved surface (51) and said intended counter surface form an area of an elongated rectangle in a direction perpendicular to that of ~~the~~ an x-ray beam produced by ~~the~~ the said x-ray source.

15. (Currently Amended) An assembly according to claim 14, wherein ~~the~~ the said contact construction of a handle ~~5, 5'~~ (5, 5') includes at least two pins ~~or the like~~, and ~~the~~ the said x-ray source housing (4), or a part attached thereto, with corresponding ~~wholes~~ holes or recesses.

16. (Currently Amended) An assembly according to claim 15, wherein ~~the~~ the said contact construction creates a three-point connection between said at least one handle ~~5, 5'~~ (5, 5') and ~~the~~ the said x-ray source housing (4), or a part attached thereto.

17. (Currently Amended) An assembly according to claim 16, wherein there are attached two handles [[5]] (5, 5') to ~~the~~ the said aiming arm [[6]] (6), at or about at the ~~proximity of the~~ said a second end of ~~it~~ said aiming arm (6).

18. (Currently Amended) An aiming assembly according to claim 12, wherein ~~the~~ the said at least one handle ~~5, 5'~~ (5, 5') is connected to ~~the~~ the said aiming arm [[6]] (6) via connection means ~~54, 55 (54, 55)~~ by which ~~it~~ said at least one handle (5, 5') is ~~not fixed and may be moved along~~ ~~the~~ the said aiming arm [[6]] (6).

19. (Currently Amended) An aiming assembly according to claim 18, wherein ~~the~~ the said connection means ~~54, 55 (54, 55)~~ include at least one hollow-through in ~~the~~ the said at least one

handle 5, 5' (5, 5') with appropriate dimension with respect to that of ~~the~~ said aiming arm [[6]]

(6).

20. (Currently Amended) An aiming assembly according to claim 12, wherein ~~the~~ said assembly includes means by which ~~the~~ said x-ray source ~~may be~~ is brought repeatedly into at least one constant distance position and/or into known distance positions from ~~the~~ said image data receiving means (9).

21. (Currently Amended) An assembly according to claim 20, wherein ~~the~~ said x-ray ~~tube~~ source housing [[4]] (4), or any ~~of~~ the parts fixed to ~~it~~ said housing (4), includes at least one connector or contact element for ~~the~~ said at least one handle 5, 5' (5, 5').

22. (Currently Amended) An assembly according to claim 21, wherein ~~the~~ said connector or contact element is an integral part of an aiming ring 10 (10) connectable to an elongated collimator 41 (41), ~~in turn~~ said collimator (41) is connectable to ~~the~~ said x-ray ~~tube~~ source housing [[4]] (4).

23. (Currently Amended) An assembly according to claim 22, wherein ~~the~~ said aiming ring 10 (10) is made connectable to ~~the~~ said collimator 41 (41) in various orientations for supporting various imaging modes.

24. (Currently Amended) An assembly according to claim 12, wherein ~~the~~ said at least one handle ~~5, 5'~~ (5, 5') includes two connection means ~~54, 55~~ (54, 55) for ~~the~~ said at least one aiming arm ~~[[6]]~~ (6), ~~intended for horizontal and vertical orientations of the image data receiving means, respectfully.~~

25. (Currently Amended) An assembly according to claim 12, wherein ~~the~~ said at least one handle ~~5, 5'~~ (5, 5') is provided with indicia ~~52, 53~~ (52, 53), ~~of which of the said connection means is designed for horizontal and which for vertical orientation of the image data receiving means 9.~~

26. (Currently Amended) A method for positioning and aiming an x-ray source with respect to a position of an intra oral image data receiving means, ~~where the~~ wherein said image data receiving means is attached to an aiming arm used as an aid in aiming the x-ray beam ~~to the at said~~ image data receiving means, wherein ~~the~~ said aiming arm is further equipped with at least one handle, ~~which~~ said handle is used as a gripping part in maneuvering ~~the~~ said aiming arm – ~~sensor holder assembly~~ and as a fixed or an adjustable reference element with respect to the distance from ~~it~~ said at least one handle to the said image data receiving means.

27. (Currently Amended) A method according to claim 26, wherein ~~the~~ said at least one handle is attached to the said aiming arm and is used to achieve a desired distance between said x-ray source ~~[[--]]~~ and said image data receiving means distance by using ~~the~~ said at least one handle as a reference point in positioning ~~the~~ said x-ray source for exposure.

28. (Currently Amended) A method according to claim 27, wherein the position of the said at least one handle on the said aiming arm is ~~not fixed and~~ adjusted by arranging a connection between the two said handle and said aiming arm such that the said handle ~~may be slid~~ is capable of sliding along the said aiming arm.

29. (Currently Amended) A method according to claim 28, wherein the said x-ray tube is positioned with respect to the said at least one handle by visually using a reference point on the said x-ray source housing or any part attached thereto, ~~especially by bringing a contact or connection structure being part of the x-ray source housing or any part attached thereto into contact with the said at least one handle.~~

30. (Currently Amended) A method for positioning and aiming an x-ray source with respect to a position of an intra oral image data receiving means, ~~where the~~ wherein said image data receiving means is attached to an aiming arm used as an aid in aiming the an x-ray beam to the at said image data receiving means, wherein the said aiming arm is further equipped with a handle, ~~which~~ said handle is used as a gripping part in maneuvering the said aiming arm —~~sensor holder~~ —assembly and as an aligning tool for aiming the said x-ray beam produced by the said x-ray source.

31. (Currently Amended) A method according to claim 30, wherein the said x-ray beam is aligned by bringing the said x-ray source into contact with a contact construction arranged in the

said handle, which is able to create at least two contact points, at least one contact line and /or at least one contact surface with a surface of the said x-ray source housing, with that of the said collimator and/or with any other part attached to the said x-ray source.

32. (Currently Amended) A method according to claim 30, wherein ~~for the first~~ a desired positioning and aiming assembly containing a desired image data receiving means - sensor holder – aiming arm –assembly, ~~possibly also including a desired bite block~~, is put together, after which the said image data receiving means is placed in a desired position inside a patient's mouth and the said x-ray beam is aligned and orientated by making the said contact between the said handle and its counter surface or element while keeping the a sensor stationary.

33. (Currently Amended) A method according to claim 30, wherein two handles are arranged on the said aiming arm.

34. (Currently Amended) A method according to claim 30, wherein the contact between the said handle and the said x-ray device is releasable source is fixed.

35. (Currently Amended) A method according to claim 30, wherein the contact is made between the said handle and the outer surface of the said collimator of the said x-ray source or between the said handle and an aiming ring of the said x-ray source.